

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Product code: 2,5-Hexanediol H0100

Product use: Restrictions on use:

Company:

CI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: Substance 2,5-Hexanediol >98.0%(GC)

For laboratory research purposes. Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

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3. COMPOSITION/INFORMATIO	I ON INGREDIENTS	
CAS Number:	2935-44-6	
Molecular Weight:	118.18	
Chemical Formula:	C ₆ H ₁₄ O ₂	
Synonyms:	2,5-Dihydroxyhexane	
4. FIRST-AID MEASURES		
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Giv is not breathing. Administer oxygen if breathing is difficult. Keep victim warm symptomatically and supportively. Ensure that medical personnel are aware take precautions to protect themselves.	n and quiet. Treat
Skin contact:	Call a poison center or doctor if you feel unwell. Remove and wash contamir Remove and isolate contaminated clothing and shoes. In case of contact wit flush skin with running water for at least 20 minutes. Treat symptomatically a medical personnel are aware of the material(s) involved and take precaution	th substance, immediately and supportively. Ensure that
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keepin material may irritate or burn eyes. Call emergency medical service. Move vic remove any contact lenses. Keep victim warm and quiet. Treat symptomatic exposure to substance may be delayed. Ensure that medical personnel are a	g eyelids open. Contact with ctim to fresh air. Check for and ally and supportively. Effects of
Ingestion:	involved and take precautions to protect themselves. Harmful if swallowed. Do not induce vomiting with out medical advice. If swa immediately and show the container or label. Do not use mouth-to-mouth me substance; give artificial respiration with the aid of a pocket mask equipped of proper respiratory medical device. Loosen tight clothing such as a collar, tie, vomits place them in the recovery position so that vomit will not reenter the r Keep victim warm and quiet. Treat symptomatically and supportively. Ensure aware of the material(s) involved and take precautions to protect themselves	ethod if victim ingested the with a one-way valve or other , belt or waistband. If a person mouth and throat. Rinse moutl e that medical personnel are
Symptoms/effects:		
Acute:	Redness.	
Delayed:	No data available	
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mouth- the inhaled material is harmful. If breathing has stopped, perform artificial re- treatment according to the nature of the injury. Ensure that medical personn- involved and take precautions to protect themselves.	spiration. Use first aid
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media:	Dry chemical, CO ₂ , sand, earth, water spray or regular foam Consult with lo attempting large scale fire fighting operations.	cal fire authorities before
0		
Specific hazards arising from the ch Hazardous combustion products:	These products include: Carbon oxides	
Other specific hazards:	Closed containers may explode from heat of a fire.	
Special precautions for fire-fighters: Use water spray or fog; do not use stra heated. Move containers from fire area Special protective equipment for fire		Containers may explode when
Wear positive pressure self-contained	preathing apparatus (SCBA). Structural fire fighters' protective clothing provides lim uations. Wear chemical protective clothing which is specifically recommended by the	
6. ACCIDENTAL RELEASE MEA	SURES	
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation	
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected person Wear eve protection (splash googles) and face protection (full length face sh	sonnel.

Emergency procedures:

Personal protective equipment:

(nitrile). In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor

respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:**

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Do NOT breath gas, fumes, vapor, or spray. Do not ingest. Avoid contact with skin and eyes. Good genera
5	ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container
	with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink,
	or smoke. Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles.
	Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid
	prolonged storage periods. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly
	sealed container.
Storage incompatibilities:	Combustible substances, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Wear eye protection (splash goggles) and face protection (full length face shield).
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Liquid Clear Colorless - Yellow No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available 221°C (430°F) No data available 0.96 No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	110°C (230°F) No data available	Autoignition temperature: Flammability or explosive limits: Lower: No data avail Upper: No data avail	

Solubility(ies):

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Acid anhydrides, Acid chlorides, Chloroformates, Reducing agents, Strong oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: MO2275000

Acute Toxicity: skn-rbt LD50:16300 uL/kg		orl-rat LD50:2 g/	kg		
scu-rbt LD50:16000 mg/kg					
Skin corrosion/irritation: No data available					
Serious eye damage/irritation: No data available					
Respiratory or skin sensitization: No data available					
Germ cell mutagenicity: No data available					
Carcinogenicity:					
No data available					
IARC: No data available	NTP:	No data available	OSHA:	No data available	
Reproductive toxicity: No data available					
Routes of Exposure: Symptoms related to exposure: Overexposure may result in serious illness of blistering. Skin contact may result in redness Potential Health Effects: Skin and eye contact may result in irritation. Target organ(s):	or death. Skin contac		characterized by itchin	ıg, scaling, reddening, or o	occasionally
12. ECOLOGICAL INFORMATION					
Ecotoxicity Fish: Crustacea: Algae: Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available				
13. DISPOSAL CONSIDERATIONS Disposal of product:	rules and regulation chemical incinerate assistance but doer regulatory complia	s if possible. It is the generate ons. You may be able to disso or equipped with an afterburn se not replace these laws, no nce according to the law. US 40 CFR Parts 261. The proc soil.	elve or mix material wit ber and scrubber system r does compliance in a EPA guidelines for Ide	h a combustible solvent and m. This section is intended ccordance with this section entification and Listing of H	nd burn in a d to provide n ensure Hazardous

Disposal of container: Other considerations: water ways, or the soil. Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US)	Non-hazardous for transportation.
IATA	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

03 Federal Regul	ations		
CERCLA Hazardo SARA 313: SARA 302:		Reportable Quantity: Not Listed Not Listed	
State Regulations	<u>.</u>		
State Right-to-Kno	ow		
Massachusetts New Jersey Pennsylvania California Proposition 65:		Not Listed Not Listed Not Listed Not Listed	
Other Information	1		
NFPA Rating:		HMIS Classification:	
Health: Flammability: Instability:	2 1 0	Health: Flammability: Physical:	2 1 0
International Inve	ntories		
WHMIS hazard cla	D2A: Materials causing other toxic effects. (Very Tox D2B: Materials causing other toxic effects. (Toxic) 220-910-3		. ,
EC-NO.		220-310-3	

16. OTHER INFORMATION

Revision date: 10/06/2014

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.